


Form PTO-1390 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE (REV 10-95)		ATTORNEY'S DOCKET NUMBER <b>702-010717</b>
<b>TRANSMITTAL LETTER TO THE UNITED STATES          DESIGNATED/ELECTED OFFICE (DO/EO/US)          CONCERNING A FILING UNDER 35 U.S.C. 371</b>		U.S. APPLICATION NO. (if known, see 37 CFR 1.5) <div style="font-size: 24pt; font-weight: bold;">09/831001</div>
INTERNATIONAL APPLICATION NO. <b>PCT/NL99/00677</b> ✓	INTERNATIONAL FILING DATE <b>04.11.99 (November 04, 1999)</b>	PRIORITY DATES CLAIMED <b>04.11.98 (November 04, 1998)</b>
TITLE OF INVENTION <div style="text-align: center; font-weight: bold;">DEVICE FOR TREATING A GAS/LIQUID MIXTURE ✓</div>		
APPLICANT(S) FOR DO/EO/US <div style="text-align: center; font-weight: bold;">Cindy Thérèse Cornelia CUYPERS ✓ and David Ian STANBRIDGE ✓</div>		
Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:		
<ol style="list-style-type: none"> <li>1. <input checked="" type="checkbox"/> This is a <b>FIRST</b> submission of items concerning a filing under 35 U.S.C. 371.</li> <li>2. <input type="checkbox"/> This is a <b>SECOND</b> or <b>SUBSEQUENT</b> submission of items concerning a filing under 35 U.S.C. 371.</li> <li>3. <input checked="" type="checkbox"/> This express request to begin national examination procedures (35 U.S.C. 371(f)) at any time rather than delay examination until the expiration of the applicable time limit set in 35 U.S.C. 371(b) and PCT Articles 22 and 39(1).</li> <li>4. <input checked="" type="checkbox"/> A proper Demand for International Preliminary Examination was made by the 19th month from the earliest claimed priority date.</li> <li>5. <input checked="" type="checkbox"/> A copy of the International Application as filed (35 U.S.C. 371(c)(2))           <ol style="list-style-type: none"> <li>a. <input type="checkbox"/> is transmitted herewith (required only if not transmitted by the International Bureau).</li> <li>b. <input checked="" type="checkbox"/> has been transmitted by the International Bureau.</li> <li>c. <input type="checkbox"/> is not required, as the application was filed in the United States Receiving Office (RO/US).</li> </ol> </li> <li>6. <input type="checkbox"/> A translation of the International Application into English (35 U.S.C. 371(c)(2)).</li> <li>7. <input checked="" type="checkbox"/> Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3))           <ol style="list-style-type: none"> <li>a. <input type="checkbox"/> are transmitted herewith (required only if not transmitted by the International Bureau).</li> <li>b. <input type="checkbox"/> have been transmitted by the International Bureau.</li> <li>c. <input type="checkbox"/> have not been made; however, the time limit for making such amendments has NOT expired.</li> <li>d. <input checked="" type="checkbox"/> have not been made and will not be made.</li> </ol> </li> <li>8. <input type="checkbox"/> A translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).</li> <li>9. <input type="checkbox"/> An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).</li> <li>10. <input type="checkbox"/> A translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).</li> </ol>		
Items 11. to 16. below concern document(s) or information included:		
<ol style="list-style-type: none"> <li>11. <input type="checkbox"/> An Information Disclosure Statement under 37 CFR 1.97 and 1.98.</li> <li>12. <input type="checkbox"/> An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.</li> <li>13. <input checked="" type="checkbox"/> A <b>FIRST</b> preliminary amendment.  <input type="checkbox"/> A <b>SECOND</b> or <b>SUBSEQUENT</b> preliminary amendment.</li> <li>14. <input type="checkbox"/> A substitute specification.</li> <li>15. <input type="checkbox"/> A change of power of attorney and/or address letter.</li> <li>16. <input checked="" type="checkbox"/> Other items or information:           <ol style="list-style-type: none"> <li>a. WO 00/25931-Front Page with Abstract, Specification, Claims, Drawings and Search Report (15 pp.)</li> <li>b. International Preliminary Examination Report and Annex (8 pp.)</li> </ol> </li> </ol>		

U.S. APPLICATION NO. <b>09/831001</b>		INTERNATIONAL APPLICATION NO. PCT/NL99/00677		ATTORNEY'S DOCKET NUMBER 702-010717																																													
17. <input checked="" type="checkbox"/> The following fees are submitted: <b>BASIC NATIONAL FEE (37 CFR 1.492(a)(1)-(5)):</b> Search Report has been prepared by the EPO or JPO..... \$860.00 International preliminary examination fee paid to USPTO (37 CFR 1.482)..... \$690.00 No international preliminary examination fee paid to USPTO (37 CFR 1.482) but international search fee paid to USPTO (37 CFR 1.445(a)(2))..... \$710.00 Neither international preliminary examination fee (37 CFR 1.482) nor international search fee (37 CFR 1.445(a)(2)) paid to USPTO..... \$1,000.00 International preliminary examination fee paid to USPTO (37 CFR 1.482) and all claims satisfied provisions of PCT Article 33(2)-(4)..... \$100.00  <div style="text-align: right;"><b>ENTER APPROPRIATE BASIC FEE AMOUNT =</b></div>				<b>CALCULATIONS PTO USE ONLY</b>																																													
Surcharge of \$130.00 for furnishing the oath or declaration later than <input type="checkbox"/> 20 <input checked="" type="checkbox"/> 30 months from the earliest claimed priority date (37 CFR 1.492(e)).				\$ 860.00																																													
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 20%;">CLAIMS</th> <th style="width: 20%;">NUMBER FILED</th> <th style="width: 20%;">NUMBER EXTRA</th> <th style="width: 20%;">RATE</th> </tr> </thead> <tbody> <tr> <td>Total claims</td> <td>12 - 20</td> <td>0</td> <td>X \$18.00</td> </tr> <tr> <td>Independent claims</td> <td>3 - 3 =</td> <td>0</td> <td>X \$80.00</td> </tr> <tr> <td colspan="3">MULTIPLE DEPENDENT CLAIM(S) (if applicable)</td> <td>+ \$270.00</td> </tr> <tr> <td colspan="3" style="text-align: right;"><b>TOTAL OF ABOVE CALCULATIONS =</b></td> <td></td> </tr> <tr> <td colspan="3">Reduction of 1/2 for filing by small entity, if applicable. Verified Small Entity Statement must also be filed (Note 37 CFR 1.9, 1.27, 1.28).</td> <td></td> </tr> <tr> <td colspan="3" style="text-align: right;"><b>SUBTOTAL =</b></td> <td></td> </tr> <tr> <td colspan="3">Processing fee of \$130.00 for furnishing the English translation later than <input type="checkbox"/> 20 <input type="checkbox"/> 30 months from the earliest claimed priority date (37 CFR 1.492(f)).</td> <td></td> </tr> <tr> <td colspan="3" style="text-align: right;"><b>TOTAL NATIONAL FEE =</b></td> <td></td> </tr> <tr> <td colspan="3">Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property</td> <td></td> </tr> <tr> <td colspan="3" style="text-align: right;"><b>TOTAL FEES ENCLOSED =</b></td> <td></td> </tr> </tbody> </table>				CLAIMS	NUMBER FILED	NUMBER EXTRA	RATE	Total claims	12 - 20	0	X \$18.00	Independent claims	3 - 3 =	0	X \$80.00	MULTIPLE DEPENDENT CLAIM(S) (if applicable)			+ \$270.00	<b>TOTAL OF ABOVE CALCULATIONS =</b>				Reduction of 1/2 for filing by small entity, if applicable. Verified Small Entity Statement must also be filed (Note 37 CFR 1.9, 1.27, 1.28).				<b>SUBTOTAL =</b>				Processing fee of \$130.00 for furnishing the English translation later than <input type="checkbox"/> 20 <input type="checkbox"/> 30 months from the earliest claimed priority date (37 CFR 1.492(f)).				<b>TOTAL NATIONAL FEE =</b>				Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property				<b>TOTAL FEES ENCLOSED =</b>				\$ 130.00	
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a. <input checked="" type="checkbox"/> A check in the amount of \$ <b>990.00</b> to cover the above fees is enclosed. b. <input type="checkbox"/> Please charge my Deposit Account No. _____ in the amount of \$ _____ to cover the above fees. A duplicate copy of this sheet is enclosed. c. <input checked="" type="checkbox"/> The Assistant Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. <u>23-0650</u> . A duplicate copy of this sheet is enclosed.  <b>NOTE:</b> Where an appropriate time limit under 37 CFR 1.494 or 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the application to pending status.  <div style="display: flex; justify-content: space-between;"> <div style="width: 40%;">           SEND ALL CORRESPONDENCE TO:            Richard L. Byrne            700 Koppers Building            436 Seventh Avenue            Pittsburgh, Pennsylvania 15219-1818            Telephone: (412) 471-8815            Facsimile: (412) 471-4094         </div> <div style="width: 55%; text-align: center;">             _____            SIGNATURE            Richard L. Byrne            _____            NAME            28,498            _____            REGISTRATION NUMBER         </div> </div>																																																	

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of :  
**Cindy Thérèse Cornelia CUYPERS** : **DEVICE FOR TREATING A**  
**David Ian STANBRIDGE** : **GAS/LIQUID MIXTURE**  
International Application :  
No. PCT/NL99/00677 :  
International Filing Date :  
04 November 1999 :  
Priority Date Claimed :  
04 November 1998 :  
Serial No. Not Yet Assigned :  
Filed Concurrently Herewith :

Pittsburgh, Pennsylvania  
May 3, 2001

LETTER RECOGNIZING ATTORNEYS

**BOX PCT**  
Commissioner for Patents  
Washington DC 20231

Sir:

Enclosed are appropriate papers for initiating the national phase of the above-identified PCT application, comprising a specification, claims and drawings. A Preliminary Amendment is also enclosed.

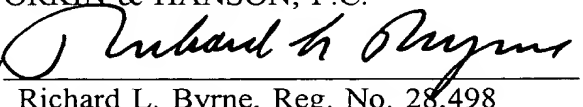
31 Please accept the application for purposes of granting a filing date and recognize Richard L. Byrne, Russell D. Orkin and Paul M. Reznick, Registration Nos. 28,498, 25,363 and 33,059, respectively, as attorneys in this application, pending the filing of a formal Declaration and Power of Attorney.

Kindly direct all communications relating to this application to **Richard L. Byrne**.

Respectfully submitted,

WEBB ZIESENHEIM LOGSDON  
ORKIN & HANSON, P.C.

By

  
Richard L. Byrne, Reg. No. 28,498  
Attorney for Applicants  
700 Koppers Building  
436 Seventh Avenue  
Pittsburgh, PA 15219-1818  
Telephone: 412/471-8815  
Facsimile: 412/471-4094

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN RE APPLICATION OF:

ATTORNEY'S DOCKET NUMBER

Cindy Thérèse Cornelia CUYPERS  
and David Ian STANBRIDGE

702-010717

PCT/NL99/00677

ENTITLED

"DEVICE FOR TREATING A GAS/LIQUID MIXTURE"

To **BOX PCT**

Attention: **DO/EO/US**

Assistant Commissioner for Patents  
Washington, D.C. 20231

**EXPRESS MAIL CERTIFICATE**

"Express Mail" Label Number EL763580155US

Date of Deposit May 3, 2001

I hereby certify that the following attached papers or fees

**TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/  
ELECTED OFFICE (DO/EO/US) CONCERNING A FILING UNDER  
35 U.S.C. 371 (original and two (2) copies) and check in amount  
of \$990.00 for filing fee and surcharge fee for late Declaration  
LETTER RECOGNIZING ATTORNEYS  
PRELIMINARY AMENDMENT with ABSTRACT  
WO 00/25931 - FRONT PAGE WITH ABSTRACT, SPECIFICATION,  
CLAIMS, DRAWINGS and SEARCH REPORT (15 pp.)  
INTERNATIONAL PRELIMINARY EXAMINATION REPORT  
with ANNEX (8 pp.)**

are being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 C.F.R. §1.10 on the date indicated above and is addressed to the Assistant Commissioner for Patents, Washington, D.C. 20231.

Nora Ann Pastrick

(Typed name of person mailing paper or fee)

Nora Ann Pastrick

(Signature of person mailing paper or fee)